No.



9600245

ADISTRIVAÇIO CEHVANS CIEHNIQUE ELHIP

TO) ALE, TO) WHOM! THESE; PRESENTS; SHALE, COME;

Asgrow Seed Company

THETENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY ACCTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'A2833'

In Vestimonn Thereof, I have hereunto set my hand and caused the seal of the Plant Hariety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of March, in the year of our Lord two thousand.

Ans maril Ylve

Commissioner Plant Variety Protection Office of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE		The following statements are n 1974 (5 U.S.C. 552a).	nade in accordance with the Privacy Ac
SCIENCE DIVISION - PLANT VARIETY PROTECTION OF	ACE		to determine if a plant variety protect
APPLICATION FOR PLANT VARIETY PROTECTION (Instructions and information collection burden statement)			S.C. 2421). Information is held confiden
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	en di reverso,	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME
ASGROW SEED COMPANY		EXPERIMENTAL NUMBER	
		FP2833 FR2833	A2833
 ADDRESS IStreet and No., or R.F.D. No., City, State, and ZIP Code, and Count 7089 – 248 – 23 	(7) 1	6. TELEPHONE (include area code) 616-384-5548	FOR OFFICIAL USE ONLY
2605 East Kilgore Road			9600245
Kalamazoo, MI 49001		6. FAX (include area code)	FIDATE
		616-384-5652	
		010-384-3032	x +1-2 - 1
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Bota	icall	G FIUNG AND EXAMINATION FEE:
Glycine max	Legumi	nosae	F 24150.00
9. CROP KIND NAME (Common name)			OATE STATE
Soybean		·	CERTIFICATION FEE
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZAT	TON (corporation, partner≠	ip, association, etc.j (Common name)	2/7
Corporation 11, If incorporated, give state of incorporation		12. DATE OF INCORPORATION	E DATE
De laware		March 22, 1968	12/10/99
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVEISI, IF ANY, TO SERV	E IN THIS APPLICATION	NO RECEIVE ALL PAPERS	14. TELEPHONE (Include area code)
Wayne Hoener, 7089-248-23 Dr. Alam	n K. Walker		616-384-5548
Asgrow Seed Company Asgrow S	Seed Company		15. FAX finchade area code)
	U.S. Highway		616-384-5652
Kalamazoo, MI 49002-1744 Janesvil	lle, WI 5354	10-8655	608-755-0128
6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow ins	tructions on reverse!		
a. XX Exhibit A. Origin and Breeding History of the Variety			
b. XX Exhibit B. Statement of Distinctness c. XX Exhibit C. Objective Description of the Variety	•		
d. XX Exhibit D. Additional Description of the Veriety			
e. XX Exhibit E. Statement of the Basis of the Applicant's Ownership			
1. XX Voucher Sample 12,600 viable untreated seeds or, for tuber propagated	varieties verification that ti	ssue culture will be deposited and maintain	ned in a public repository)
g. XX Filing and Examination For (\$2,450), made payable to "Treasurer of the			
7. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VI	ARIETY NAME ONLY, AS A		ion 83(s) of the Plant Variety Protection Acti?
B. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS	TO NUMBER OF 18.	IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?
	j	FOUNDATION . REGISTER	ED CERTIFIED
GENERATIONS? YES XX NO	1		
	LSED, USED, OFFERED FO	R SALE, OR MARKETED IN THE U.S. OR	OTHER COUNTRIES?
□ YES XX NO		r sale, or marketed in the U.S. or	OTHER COUNTRIES?
☐ YES XX NO D. HAS:THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEA		r sale, or marketed in the U.S. or	OTHER COUNTRIES?
YES XX NO D. HAS.THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEAD YES 81 "yes," give names of countries and dates) 1. The applicantial declare that a viable sample of basic seed of the variety will be full	NO unished with application ac	id will be replenished upon request in acco	
YES XX NO D. HAS.THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEADED. YES III "yes," give names of countries and dates) XX II I. The applicant(s) declare that a viable sample of basic seed of the variety will be full applicable, or for a tuber propagated variety a tissue culture will be deposited in a	unished with application as a public repository and mai	d will be replenished upon request in accusained for the duration of the certificate.	ordence with such regulations as may be
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ASGROW SEED COMPANY PVP APPLICATION A2833 SOYBEAN April, 1996

EXHIBIT A ORIGIN AND BREEDING HISTORY OF A2833

1989 Cross K8915078 was made in Kalamazoo, Michigan, in the Parentage: A2396*XP3299 winter. 1989-90 F1 and F2 generation was grown near Isabela, Puerto Rico and advanced using modified pedigree selection. F3 bulk populations were grown in Costa Rica and single plants pulled. 1990 F3 derived plant rows were grown at Kalamazoo. Plant row CR90-92 was selected based on agronomic characteristics. 1991 CR90-92 was entered in yield test 1KP282 as entry 43, at 3 locations where it placed 6 of 50 entries. 1992 CR90-92 was entered in a 13 location yield test as entry 24, where it placed first of 50 entries. Now named XI2833, the line was entered in two tests, at 1993 a total of 30 test-locations, where it placed second of 33 and 20 entries respectively. Single F7 plants were pulled at Ames, Iowa. From these SPS's, pure rows of seed was produced at Isabela, Puerto Rico. 1994 Now named FR2833, the line was entered in two company wide yield tests, at a total of 33 test-locations, where it ranked first and fourth respectively. A maintenace yield test to produce breeder seed was grown and 24 tawny lines were bulked. Now named FP2833, the line was entered in a total of 40 1995 test-locations in two company wide tests, where it ranked ninth and sixth respectively. uniform A2833 is and stable within commercially acceptable limits based on trial observations since 1990. As with other soybean varieties, variants can occur for almost any characteristic during the course

of repeated sexual reproduction.

Asgrow Seed Company PVP Application A2833 Soybean April, 1996

EXHIBIT B NOVELTY STATEMENT CONCERNING A2833 SOYBEAN

To our knowledge, the soybean varieties that closely resemble A2833 are A2396 and A2835 $\,$

1.	Pubescence Color	A2833 - Tawny
		A2396 - Gray
		A2835 - Gray
2.	Hilum Color	A2833 - Black
		A2396 - Imperfect black
		A2835 - Imperfect black
з.	Phytophthora Root Rot	A2833 - Rps1k
		A2396 - Rps1a
		A2835 - Rps1c
4.	Maturity	A2833 - 127 days
	-	A2396 - 122 days
		72835 - 127 days

EXHIBIT[®]C (Saybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
8ELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

	TEMPORARY DE	SIGNATION !	VARIETY NAME	
NAME OF APPLICANTIST ASGROW SEED COMPANY	FP2833, FR		A2833	
jne in the second	1		508.05	FICIAL USE ONLY
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Coo	de)		PVPO NUMBER	PICIAL OCCURRE
2605 East Kilgore Road 6848-248-013				9600245
Kalamazoo MI 49001 Choose the appropriate response which characterizes the va	riety in the featur	res described b	elow. When the	number of significant digits
Choose the appropriate response which characterizes the value in your answer is fewer than the number of boxes provided. Starred characters * are considered fundamental to an adequive information is available.				
1. SEED SHAPE:				
2	τ .			
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Sphe 4 = Elong	rical Flattened (I pate Flattened (I	_/W ratio > 1.2; L/ _/T ratio > 1.2; T/\	Tratio = < 1.2) V > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)				
1 = Yetlow 2 = Green 3 = Brown	4 = Black	5 = Other <i>(</i> 3	Specify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)				
1 = Duil ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebs	soy'; 'Gasoy 17')			
★ 4. SEEO SIZE: (Mature Seed)			: ·	•
1 5 Grams per 100 seeds				
★ 5. HILUM COLOR: (Matura Seed)				
6 1 = Buff 2 = Yellow 3 = Brown	4 × Gray 5	= Imperfect Blac	k 6 = 8lack	7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)			•	
1 = Yellow 2 = Green				
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:				
1 * Low 2 = High				
★ 8. SEED PROTEIN ELECTROPHORETIC BAND:				
2 = Type A (SP1 ^a) 2 = Type 8 (SP1 ^b)				,
★ 9, HYPOCOTYL COLOR:				
1 = Green only ('Evans'; 'Davis') 2 = Green will 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson')	ith bronze band belo ') '; 'Coker Hampton 2		Woodworth'; 'Tracy	.)
★10. LEAFLET SHAPE:				
1 = Lanceolate 2 = Ovai 3 = Ovate	8 4 = Othe	et (Specify)		
3 1 - Cancediate 2 - Oval		•		

11. LEAFLET SIZE:	
1 = Small ('Armsov 71'; 'A5312') 2 3 = Large ('Crawlord'; 'Tracy')	2 = Medium ('Corsov 79': 'Gasov 17')
2 3 = Large ('Crawford'; 'Tracy')	
12. LEAF COLOR:	
3 1 = Light Green ('Weber'; 'York')	2 = Medium Green (*Corsoy 79*; *Braxton*)
3 = Oark Green ('Gnome'; 'Tracy')	
* 13. FLOWER COLOR:	
2 1 = White 2 = Purple	3 = White with purple throat
★ 14. POD COLOR:	
1 = Tan 2 = Brown	3 = Black
* 15. PLANT PUBESCENCE COLOR:	
2 1 = Gray 2 = Brown (Tawny)	
1 - 0:34	
16. PLANT TYPES:	
	2 = Intermediate ('Amcor'; 'Braxton')
1 = Stender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	Z = Intermediate (Alicon)
* 17. PLANT HABIT:	
1 = Determinate ('Gnome'; 'Braxton')	2 = Semi-Determinate ('Will')
3 = Indeterminate ('Nebsoy'; 'Improved i	
★ 18, MATURITY GROUP:	
	4=1 5=11 6=111 7=1V 8=V
0 5 1 000 2 00 3 0 9 - VI 10 - VII 11 - V	
★ 19. DISEASE REACTION: (Enter 0 = Not Tested: 1	* Suscepuble: 2 = Resistant)
BACTERIAL DISEASES:	
[
* D Bacterial Pustule (Xanthomonas phaseoli	(i var. sojensis)
Bacterial Blight (Pseudomonas glycinea)	
Wildfire (Pseudomonas tabaci)	
* [0]	
FUNGAL DISEASES:	
* 0 Brown Spot (Septoria glycines)	
Frogeye Leaf Spot (Cercospora sojinal	
Progress Leaf State (Central State)	Page 3 0 Bage 4 0 Bage 5 0 Other (Specify)
	Race 3 0 Race 4 0 Race 5 0 Other (Specify)
▼ 0 Race 1 0 Race 2 0	
Race 1 0 Race 2 0	
Target Spot (Corynespora cassiicola)	a vac manthurical
O Target Spot (Corynespora cassiicola) O Downy Mildew (Peronospora triloliorum	
Target Spot (Corynespora cassiicola)	
O Terget Spot (Corynespora cassiicola) O Downy Mildew (Peronospora tritoliorum	

19.	DISEA	SE REACTIO	N: (Enter 0 = Not Tested; 1 = Susceptible;	2 = Resistant) (Continued)	9600245
	FUN	IGAL DISEAS	SES: (Cantinued)		
*	0	Pod and Ste	em Blight <i>(Diaporthe phaseolorum</i> var; sojæ	,	
	0	Purple Seed	Stain (Cercospora kikuchii)		
٠.	0	Rhizoctonia	Root Rot (Rhizoctonia solani)		
		Phytophthe	ra Rot (Phytophthora megasperma var. sojat	<u>, </u>	
*	2	Race I	2 Race 2 2 Race 3 - 2	Race 4 2 Race 5	0 Race 6 2 Race 7
	2	Flace 8	2 Race 9 2 Other (Specify,	10, 11, 13, 14, 1	8, 21, 26
	VIRA	AL DISEASES	:		Race 21 = 1 (susceptible) (BT-7/17/2003: Derapplicants
	0	Bud Blight (Tobacco Ringspot Virus)		(BT.7/17/2003: perapplicant's (representative Dr. steffen) approve
	0	Yellow Mos	aic (Bean Yellow Mosaic Virus)		
*	0	Cowpea Mos	aic (Cowpea Chlorotic Virus)		
	0	Pod Mottle (Bean Pod Mottle Virusi		
'. ★		Seed Mottle	(Soybean Mosaic Virus)		
•,	NEM.	ATODE DISE	ASES:		
•		Soybean Cys	t Nematode (Heterodera glycines)		
*	0	Race 1	0 Race 2 0 Race 3 0	Race 4 0 Other (S	pecify)
			code (Haplolaimus Colombusi		
*	금		ot Knot Nematode (Meloidogyne incognita)		
··	품	•	ot Knot Nematode (Meloidogyne Hapla)	e e e e e e e e e e e e e e e e e e e	
~	씜		Knot Nematode (Meloidogyne srenaris)		
·			matode (Rotylenchulus reniformis)		
į			ASE NOT ON FORM (Specify):		
į		0111611 0151	CASE HOT SHIP OTHER ISSUEDAY).		
20. PI	HYSIO	LOGICAL RE	SPONSES: (Enter 0 = Not Tested; 1 = Susc	eptible; 2 = Resistant)	
*	2	Iron Chlorosii	on Calcareous Soil		
		Other (Specif	n		
21. IN	SECT	REACTION:	(Enter 0 = Not Yested; 1 = Susceptible; 2 =	Resistanti	
	0	Mexican Bean	Beetle (Epilachna varivestis)		
. [0	Potato Leaf H	opper (Empoasca fabae)		
	0	Other (Specify	·/		
22. IN	DICAT	E WHICH VA	RIETY MOST CLOSELY RESEMBLES TH	AT SUBMITTED.	<u> </u>
		ACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Pla	nt Shar	oe	A2835	Seed Coat Luster	A2835
Lea	al Shap	c	A2835	Seed Size	A2835
(.e.	of Colo	•	A2722	Seed Shape	A2835
Les	at Size		A2722	Scedling Pigmentation	A2835
		j		•	•

)

FORM LMGS 470 57 16-831

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Langth	% Protein	NO II	SEEDS	POD
A2833 Submitted	127	1.3	82	77	100	41.4	19.8	15.2	2.02
A2835 Name of Similar Variety	125	1.8	88	75	95	40.6	19.2	14.6	1.74

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowrtz, T. 1973. Electrophoretic analysis of S8TI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

ASGROW SEED COMPANY PVP APPLICATION A2833 SOYBEAN April, 1996

EXHIBIT D ADDITIONAL DESCRIPTION OF VARIETY

A2833 is a late maturity group II variety with Rps1k, conferring resistance to most races of phytophora root rot. It is an improved plant type, with better lodging resistance and is adapted across all row widths and soil types. A2833 has excellent yield potential and is adapted across all the late Group II growing area. It has excellent defensive traits, including BSR resistance and good ratings for Iron Deficiency Chlorosis, as well as excellent seedling emergence.

ASGROW SEED COMPANY PVP APPLICATION A2833 SOYBEAN April, 1996

EXHIBIT E

STATEMENT OF BASIS OF APPLICANT OWNERSHIP

A2833 was originated and developed by Dr. Kevin Matson, an Asgrow soybean breeder. By agreement with Asgrow Seed Company, all rights to any invention, discovery or development made by employees are assigned to the company. No rights of such invention, discovery or development are returned to the employee.